



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	: Confirmation No. 2306
Hiroyuki NAGANO et al.	: Docket No. 2003_1209A
Serial No. 10/647,474	: Group Art Unit 1714
Filed: August 26, 2003	: Examiner Sandra K. Poulos

WATER-BASED METALLIC PAINT

DECLARATION UNDER RULE 1.132

Commissioner for Patents
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Sir:

I, Hiroyuki NAGANO, hereby declare as follows:

That I graduated, in March 1991, at Doshisha University, Faculty of Engineering, Course of Industrial Chemistry, and, in April of the same year, proceeded to Master Course of Industrial Chemistry of Faculty of Engineering of the same University, which I finished in March 1993 ;

That, in April 1993, I joined Kansai Paint Co., Ltd., where I have since engaged in the research and development of automotive paint at the 2nd Technical Division of the Headquarters of Automotive Paint of the same company up to now;

That I am one of the co-inventors of U.S. Application Serial No. 10/647,474; and

That the following experiments were carried out by myself, or under my supervision and control.

Comparative Example 2

Mixing and dispersing 75 parts of a hydroxyl-containing acrylic resin^{note 1)}, 25 parts of a melamine resin^{note 2)}, 20 parts of Alumi-paste[®] GX-180A (Asahi Kasei Corporation; an aluminum flake paste) and 4 parts of DISPARLON[®] AQ-600 in deionized water, a water-based metallic paint (the present composition) with its viscosity adjusted to 25 seconds/Ford Cup #4/20°C was obtained. The paint had a storage modulus of elasticity ^{note 3)} of 84 Pa/20°C.

With regard to notes 1), 2) and 3), please see the present specification, page 7, lines 9–31.

Thus obtained paint was subjected to a performance test in accordance with the method as mentioned in the present specification, page 8, line 6 to page 9, line 25. Results are shown in Table 2 below, together with the results of Example 1 according to the present invention.

Table 2

		Example 1	Comparative Example 2
Storage modulus of elasticity		110 Pa	84 Pa
FF property	visual evaluation	○	△
	measured value	1.8	1.6
IV value		277	220
Metallic appearance		○	△

The undersigned declarant declares further that a All statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

Signed this 2/ day of December, 2006

Hiroyuki Nagano
Hiroyuki NAGANO